

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Andr. Marschel Examiner #: 67345 Date: 6-12-01
 Art Unit: 1631 Phone Number 305-3894 Serial Number: 081973, 381
 Mail Box and Bldg Room Location: CM1 12A11 Results Format Preferred (circle): PAPER DISK E-MAIL
1200x

If more than one search is submitted, please prioritize searches in order of need.

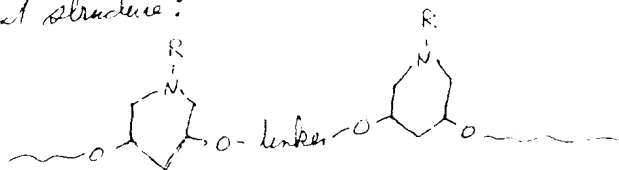
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Aminodiol oligomers
 Inventors (please provide full names): Normand Helbert

Earliest Priority Filing Date: 6/7/96

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for polymers containing the following chemical structure:



R = any substituent or H; preferably either a nucleobase or amino acid side chain
 linker = any chemical linkage, preferably a phosphate or phosphodiester linkage

Point of Contact:
 Susan Hanley
 Technical Info. Specialist
 CM1 12C14 Tel: 305-4053

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Hanley</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>1</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>6/12</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>7/5</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time _____	Patent Family _____	WWW/Internet _____
Online Time: <u>15 min</u>	Other _____	Other (specify) _____

Combinatorial libraries containing aminodiol

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophyll was expressed in mg/L.

Table 1. *Salmonella* serotypes and their associated diseases

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Sponholz (1980). The total protein concentration was determined by the method of Lowry (1956). The protein concentration was determined by the method of Lowry (1956). The protein concentration was determined by the method of Lowry (1956).

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1010 spectrophotometer. The concentration of chlorophyll was expressed as $\mu\text{g mL}^{-1}$ of the sample.

[illegible]

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

PATENT NO.	FIND DATE	APPLICATION NO.	DATE
US 1984-483111	BI 1984-01-15	US 1984-483111	1984-01-15
CA 1984-483111	AA 1984-01-15	CA 1984-483111	1984-01-15
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NI, NL, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, TR, UA,			
YU, ZK			
FR: FR, ES, MX, SI, DE, GB, AT, BE, CH, CA, CN, DK, FI, FR,			
DE, IT, IL, NL, PT, SE, SI, BG, GR, HU, LI, LU, SA			
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FI 1984-01-15	IL 1984-01-15	IE 1984-01-15	1984-01-15
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DE, FI			
FR: DE 1984-483111	AI 1984-01-15		
FI 1984-483111	A 1984-01-15		
W 1984-483111	A 1984-01-15		

Combinatorial libraries are constructed to include aminodiol monomer subunits connected by phosphodiester, phosphorothioate, or phosphoramidate linking moieties. Combinatorial libraries of the invention feature a plurality of functional groups attached to backbone and phosphoramidate combinatorial sites.

51-35-4 65-71-4, Thymine 71-30-7, Cytosine
73-24-5, Adenine, reactions 98-88-4, Benzoyl chloride
103-82-2, Phenylacetic acid, reactions 107-95-9,
L-Aminopropionic acid 112-47-0, 1,11-Decanediol 288-32-4
, Imidazole, reactions 534-03-2, D-Amino-1,3-propanediol
28920-43-6 40615-36-9
PL: BGT Reactants

combinatorial libraries having aminodiol monomer subunits:

01-55-1 CHARLES

20	1-Pyrrolene, 4-hydroxy-, 4R - 9018	CA INDEX NAME
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Abstracts of the following papers were presented:

14. *Journal of the American Medical Association*, 277:1255-1256, 1996

$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{4}$

10

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[illegible]

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[illegible]

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4

100

FILE NUMBER	FILED IN	FILED BY	FILED ON	OR INDEX NAME
100-100000	100-100000	100-100000	100-100000	100-100000

21

10-12-11 HAWKING
10-12-11 10:10 AM 10:10 AM 10:10 AM 10:10 AM 10:10 AM

IN 10-15-6 HOARLES
IN Octa-Thaline 601, 601, 601 CA INDEX NAME

$$\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{COOH}$$

11-47-1, HARPUS
11-48-1, HARPUS 101, 101 SA INDEX NAME

1. 1
 2. 2
 3. 3

[illegible]

	(continued)
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	-
	-

[illegible]

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 2. $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ 3. $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$

37.

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (C) and the experimental group (E). The control group (C) was divided into two subgroups: the control group (C) and the control group (C). The experimental group (E) was divided into two subgroups: the experimental group (E) and the experimental group (E).

PL - PCT (Reactants); SPN (Synthetic preparation); PREP -Preparation
combinatorial libraries having aminodiol
monomer subunits.

NY 100-4-10-4 HCRFJUS

1000

$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

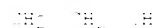
[illegible]

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher than the number of incorrect responses in all conditions.

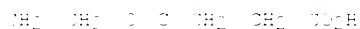
$$\frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$



11-404-001 HOSAPLUS
 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-

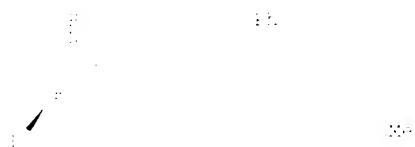


11-404-001 HOSAPLUS
 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-
 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-



11-404-001 HOSAPLUS
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 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-

11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-



11-404-001 HOSAPLUS
 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-
 11-404-001 HOSAPLUS, 1-[bis(4-methoxyphenyl)phenylmethoxymethyl]-, (S)-, (S)-

Figure 1: Schematic representation of the experimental design. The figure shows a sequence of four panels. Panel 1: A subject is shown in a box, with a 'Stimulus' box containing a 3x3 grid of numbers. Panel 2: The subject is shown with a 'Response' box containing a 3x3 grid of numbers. Panel 3: The subject is shown with a 'Response' box containing a 3x3 grid of numbers. Panel 4: The subject is shown with a 'Response' box containing a 3x3 grid of numbers.

[illegible]

01 10001-17-1 HCAPLUS
 02 1-(4-oxo-1,2,3,4-tetrahydro-2H-pyridin-5-yl)carboxylic acid, 2-[[[4-(4-methoxyphenyl)phenyl]methyl]methyl-
 03 -4-oxo-1,2,3,4-tetrahydro-2H-pyridin-5-ylmethyl ester, 1S,4R - (S)- CA INDEX NAME

[illegible]

80 1000000000 HEADLINE
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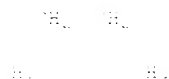
PRINT ...

RE

1. ANONY. WD #111374 1941 HCAPLUS
2. AN. D. WD #111371 1941 HCAPLUS
3. ANONY. WD #111371 1941 HCAPLUS
4. ANONY. WD #111371 1941 HCAPLUS
5. ANONY. WD #111371 1941 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

BN 1000-10-10 HCAPLUS
 IN 1000-10-10 1,1-dithianediphenyl ether 1000-10-10 CA INDEX NAME



BN 1000-10-10 HCAPLUS
 IN 1000-10-10 1,1-dithianediphenyl ether 1000-10-10 CA INDEX NAME



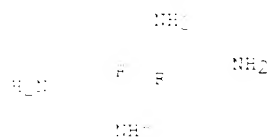
BN 1000-10-10 HCAPLUS
 IN 1000-10-10 1,1-dithianediphenyl ether 1000-10-10 CA INDEX NAME

Assemble stereochemistry.



BN 1000-10-10 HCAPLUS
 IN 1000-10-10 1,1-dithianediphenyl ether 1000-10-10 CA INDEX NAME

Assemble stereochemistry.



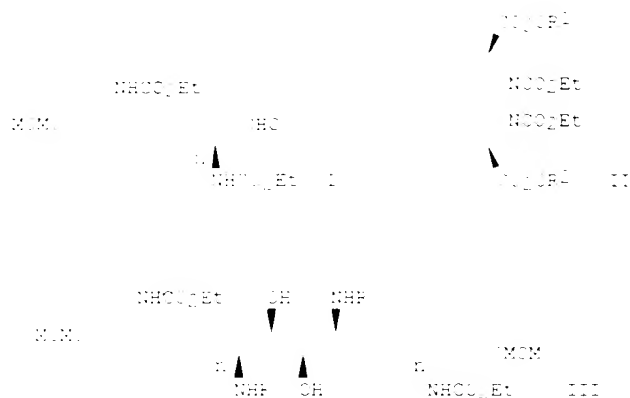
IT 302799-63-9P 302799-64-0P 302799-66-2P
 302799-68-4P 302799-69-5P
 PL: PCT Reactant; SPN Synthetic preparation; PREF Preparation
 dioxadecalin, salen tautomeric macrocycles and complexes and
 prototypical dynamic **combinatorial** virtual **libraries**

BN 1000-10-10 HCAPLUS
 IN 1000-10-10 1,1-dithianediphenyl ether 1000-10-10 CA INDEX NAME

Assemble stereochemistry.
 1000-10-10 Stereochemistry as described by E. L. C.

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 11 000000 000000 000000 000000 000000
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22 The linear, enantiomerically pure 3-9 amino aldehyde I (n = 1) is prepd.
 23 by addn. of di-Et acetic acid to 1,3-cyclooctadiene,
 24 hydrolysis, reduct., and enzymic asymmetric esterification
 25 of the meso diol II (R1 = R2 = H) to give monoacetate II (R1 = H, R2 =
 26 Ac). Enzymic hydrolysis of diacetate II (R1 = R2 = Ac) gave the
 27 enantiomeric monoacetate II (R1 = Ac, R2 = H). Lipzyme IM proved to be
 28 the enzyme of choice for both alternatives (70-80% yield each, ee 98%).
 29 Stereoselective pinacol coupling of I (n = 1) and monomer I (n = 1) by
 30 Saulon's reagent (VCl3 THF 6)(SnCl4) gave adducts in 60-80% yields,
 31 with III (R = CO2Et) being the predominant isomers. In the case of I (n =
 32 1), 0.27 equiv of reagent (ca. 1 equiv of V2+) was sufficient to bring
 33 about total conversion; for total conversion of I (n = 1), a significant
 34 excess of reagent was needed (1.0 equiv, ca. 4 equiv of V2+). From III (R
 35 = Et), examples for potential libraries of structurally
 36 varied derivs., such as cyclic ureas and pseudotetrapeptides III (R
 37 = Arg-Val) are prepd.

38 214549-56-1P

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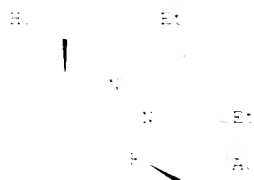
11 214549-57-2P

RE: BHT. Preparation / BHT. Reagent / BHT. Reagent
 PREP. Preparation
 PREP. of linear sym. **diaminodiol** building blocks from
 cyclic olefins and pinacol coupling of amino aldehydes

11 214549-57-2P

RE: BHT. Preparation / BHT. Reagent / BHT. Reagent
 PREP. Preparation
 PREP. of linear sym. **diaminodiol** building blocks from
 cyclic olefins and pinacol coupling of amino aldehydes
 RE: 1,4-bis(2-aminoethyl)pyrrolidine-2-carboxylic acid, 3-(ethoxycarbonyl amino)-2-hydroxy-6-
 methoxymethoxy methyl-, diethyl ester, 98,99% - 100% (A INDEX NAME)

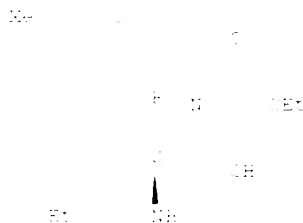
Assume stereochemistry. Rotation +.



11 214549-86-7P

RE: BHT. Byproduct / PREP. Preparation
 PREP. of linear sym. **diaminodiol** building blocks from
 cyclic olefins and pinacol coupling of amino aldehydes
 RE: 1,4-bis(2-aminoethyl)pyrrolidine-2-carboxylic acid, 3-(ethoxycarbonyl amino)-2-hydroxy-6-
 methoxymethoxy methyl-, ethyl ester, 98,99% - 100% (A INDEX NAME)

Assume stereochemistry.



11 1149-26-4 1700-10-3. 1,3-Cyclooctadiene
 1972-28-7. Diethyl succinate 89172-48-5,
 Diethyl succinate 183388-50-3 214549-64-1
 RE: BHT. Reagent

PREP. of linear sym. **diaminodiol** building blocks from
 cyclic olefins and pinacol coupling of amino aldehydes
 RE: 1,4-bis(2-aminoethyl)pyrrolidine-2-carboxylic acid, 3-(ethoxycarbonyl amino)-2-hydroxy-6-
 methoxymethoxy methyl-, ethyl ester, 98,99% - 100% (A INDEX NAME)

Assume stereochemistry. Rotation +.

MAPCHBL 17 11/101

101 101 101

101 101 101

BN 101-101-101 HCAPLUS
UN 101-101-101 HCAPLUS 101 101 101 101 INDEX NAME

BN 101-101-101 HCAPLUS
UN 101-101-101 HCAPLUS 101 101 101 101 INDEX NAME

BN 101-101-101 HCAPLUS

BN 101-101-101 HCAPLUS
UN 101-101-101 HCAPLUS 101 101 101 101 INDEX NAME

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UN 101-101-101 HCAPLUS

BN 101-101-101 HCAPLUS
UN 101-101-101 HCAPLUS 101 101 101 101 INDEX NAME

MAPCHBL BY JUAN HANLEY

101 101 101

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01  1-1-1-1-1-1-1 H088192
02  1-(2-Pyridinedithiocarbonyl) acid, S-[S-acetylsulfamethoxy methyl]tetrahydro-4-
03  pyrimidinyl-, diethyl ester, 1H, 13C NMR - 100% DMSO-d6
04  1H, 13C = 101 CA INDEX NAME

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¹ *Journal of the American Academy of Child and Adolescent Psychiatry*, 45(1), 10–18.

[illegible]ANAL. Calcd for $C_{10}H_{14}O$: C, 85.70%; H, 14.30%. Found: C, 85.6%; H, 14.2%. IR (KBr): 3400 (broad), 1640, 1610, 1510, 1460, 1380, 1280, 1180, 1100, 1050, 1010, 960, 910, 860, 820, 780, 740, 700, 660, 620, 580, 540, 500, 460, 420, 380, 340, 300, 260, 220, 180, 140, 100, 60, 20, 10, 0. 1H NMR (CDCl₃): 7.1 (d, 1H, J = 10.0 Hz), 6.9 (d, 1H, J = 10.0 Hz), 6.7 (d, 1H, J = 10.0 Hz), 6.5 (d, 1H, J = 10.0 Hz), 6.3 (d, 1H, J = 10.0 Hz), 6.1 (d, 1H, J = 10.0 Hz), 5.9 (d, 1H, J = 10.0 Hz), 5.7 (d, 1H, J = 10.0 Hz), 5.5 (d, 1H, J = 10.0 Hz), 5.3 (d, 1H, J = 10.0 Hz), 5.1 (d, 1H, J = 10.0 Hz), 4.9 (d, 1H, J = 10.0 Hz), 4.7 (d, 1H, J = 10.0 Hz), 4.5 (d, 1H, J = 10.0 Hz), 4.3 (d, 1H, J = 10.0 Hz), 4.1 (d, 1H, J = 10.0 Hz), 3.9 (d, 1H, J = 10.0 Hz), 3.7 (d, 1H, J = 10.0 Hz), 3.5 (d, 1H, J = 10.0 Hz), 3.3 (d, 1H, J = 10.0 Hz), 3.1 (d, 1H, J = 10.0 Hz), 2.9 (d, 1H, J = 10.0 Hz), 2.7 (d, 1H, J = 10.0 Hz), 2.5 (d, 1H, J = 10.0 Hz), 2.3 (d, 1H, J = 10.0 Hz), 2.1 (d, 1H, J = 10.0 Hz), 1.9 (d, 1H, J = 10.0 Hz), 1.7 (d, 1H, J = 10.0 Hz), 1.5 (d, 1H, J = 10.0 Hz), 1.3 (d, 1H, J = 10.0 Hz), 1.1 (d, 1H, J = 10.0 Hz), 0.9 (d, 1H, J = 10.0 Hz), 0.7 (d, 1H, J = 10.0 Hz), 0.5 (d, 1H, J = 10.0 Hz), 0.3 (d, 1H, J = 10.0 Hz), 0.1 (d, 1H, J = 10.0 Hz). ^{13}C NMR (CDCl₃): 155.0, 154.0, 153.0, 152.0, 151.0, 150.0, 149.0, 148.0, 147.0, 146.0, 145.0, 144.0, 143.0, 142.0, 141.0, 140.0, 139.0, 138.0, 137.0, 136.0, 135.0, 134.0, 133.0, 132.0, 131.0, 130.0, 129.0, 128.0, 127.0, 126.0, 125.0, 124.0, 123.0, 122.0, 121.0, 120.0, 119.0, 118.0, 117.0, 116.0, 115.0, 114.0, 113.0, 112.0, 111.0, 110.0, 109.0, 108.0, 107.0, 106.0, 105.0, 104.0, 103.0, 102.0, 101.0, 100.0, 99.0, 98.0, 97.0, 96.0, 95.0, 94.0, 93.0, 92.0, 91.0, 90.0, 89.0, 88.0, 87.0, 86.0, 85.0, 84.0, 83.0, 82.0, 81.0, 80.0, 79.0, 78.0, 77.0, 76.0, 75.0, 74.0, 73.0, 72.0, 71.0, 70.0, 69.0, 68.0, 67.0, 66.0, 65.0, 64.0, 63.0, 62.0, 61.0, 60.0, 59.0, 58.0, 57.0, 56.0, 55.0, 54.0, 53.0, 52.0, 51.0, 50.0, 49.0, 48.0, 47.0, 46.0, 45.0, 44.0, 43.0, 42.0, 41.0, 40.0, 39.0, 38.0, 37.0, 36.0, 35.0, 34.0, 33.0, 32.0, 31.0, 30.0, 29.0, 28.0, 27.0, 26.0, 25.0, 24.0, 23.0, 22.0, 21.0, 20.0, 19.0, 18.0, 17.0, 16.0, 15.0, 14.0, 13.0, 12.0, 11.0, 10.0, 9.0, 8.0, 7.0, 6.0, 5.0, 4.0, 3.0, 2.0, 1.0, 0.0. MS (EI): m/z 154 (M⁺), 139, 124, 109, 94, 79, 64, 49, 34, 19, 4, 0.

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32622-11-0P 214549-54-9P 214549-55-0P
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214549-61-8P 214549-62-9P 214549-63-0P
214549-65-2P 214549-67-4P 214549-68-5P
214549-69-6P 214549-70-9P 214549-72-1P
214549-74-3P 214549-75-4P 214549-79-8P
214549-81-2P 214549-82-3P 214549-83-4P
214549-84-5P 214549-85-6P

```

PL: PBT, Reagent; SPN: Synthetic preparation; PPEV: Preparation
 prepn. of linear sym. **diaminodiols** building blocks from
 cyclic olefins and dinuclei coupling of amino aldehydes

[illegible]

01 7-[[[4-(diethylamino)-3-methylphenyl]-9-ene⁻, 7-dicarboxylic acid, 1:1:1] ester;
02 01 "A INDEX NAME"

[illegible]

1. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)



1-14-69-08- HEMPHIS
 1-1-69-08-17-diphenylacetic acid, 3,5-bis(acetoxy methyl)benzoic acid,
 methyl ester, H₂O - Ref - SCI CA INDEX NAME

PHYSICAL CHEMISTRY.



```

EN 114849-14-3 HCAPLUS
DE 1,1-dimethylethyl-2,2-dicarboxylic acid, 3-[4-acetyl-1-methyl-1,1-
dimethylethyl-dimethylsilyloxy]methylhexahydro-, diethyl ester, (9R,10S)-
EN 11 1A INDEX NAME

```

Asymmetric Stereochemistry.

[illegible]

Assemble stereochemistry. Rotate 180°.



BN 014649-01-1 HCAPLUS

CA Carboxylic acid, [1R,1S,7R,8R,9S,14R]-7,8-dihydroxy-1,14-bis[2-methoxymethoxy methyl]-1,6,8,14-tetradecanetetrayl]tetrahydroxy-, tetraethyl ester :PDI CA INDEX NAME

Assemble stereochemistry.



BN 014649-01-4 HCAPLUS

CA Carboxylic acid, [1R,1S,7R,8R,9S,14R]-6,8-diamino-7,8-dihydroxy-1,14-bis[2-methoxymethoxy methyl]-1,14-tetradecanediyl]bis-, diethyl ester :PDI CA INDEX NAME

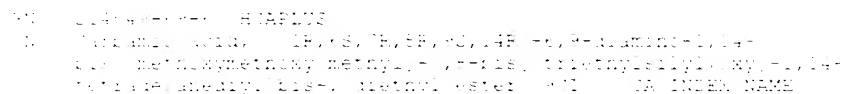
Assemble stereochemistry.



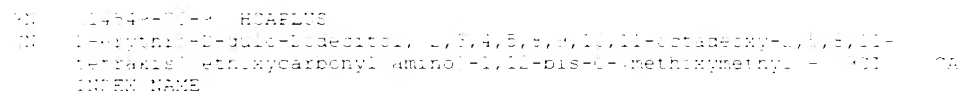
BN 014649-01-1 HCAPLUS

CA Carboxylic acid, [1S,1R,3R,4S]-1,4-bis[5R-5-[ethoxycarbonyl amino]-2-methoxymethoxy hexyl]-2,3-dihydroxy-1,4-butanediyl]bis-, bis (phenylmethyl) ester :PDI CA INDEX NAME

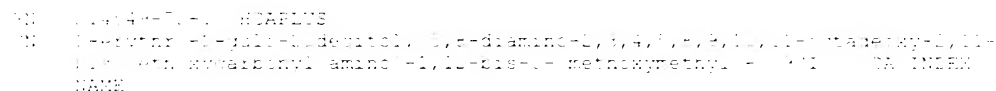
Assemble stereochemistry.



10. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (The probability of getting a head on the first toss and a tail on the second toss is $\frac{1}{4}$.)



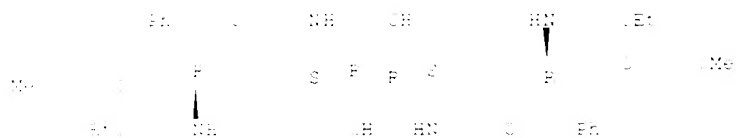
Absolute stereochemistry.



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[illegible][illegible]

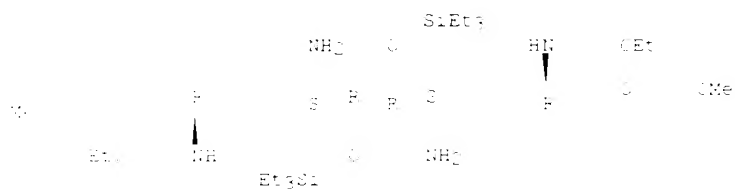
$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$



CONCLUSIONS

1-hydroxy-5-pyridocetyl, 5, x-diamino-1,3,4,6,7,8,10,11-undecylo-3...
1,2-bis-(4-phenylamino)-1,11-bis-0-methoxyethyl-, 1'-bis-1-
1'-undecyl - 401 CH INDEX NAME

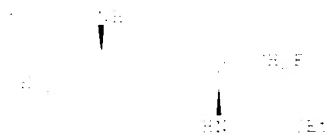
DATE RECEIVED: 11/11/2011



1. *Chlorophyll a* (Chl *a*) and *Chlorophyll b* (Chl *b*) were determined using the method of Arar and Collins (1987). The concentration of Chl *a* and Chl *b* was expressed as $\mu\text{g mL}^{-1}$ of the sample.

10 1-ethoxybenzene, 4-ethoxybenzoyl -b-, ethoxybenzoyl amant, -o-tolyl-,
11 1-ethyl- 1A INDEX NAME

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.



41 114449-4-1-1 HCAPLUS
 41 1,1,2,2-tetrahydro-1,2,4-benzoxazine-3-carboxylic acid, 1-acetyloxyethyl ester, (3S,4S)- 901 CA INDEX NAME

Absolute stereochemistry.



42 114449-4-1-2 HCAPLUS
 42 1,1,2,2-tetrahydro-1,2,4-benzoxazine-3-carboxylic acid, 1-ethyl ester, (3S,4S)- 901 CA INDEX NAME

Absolute stereochemistry.



43 114449-4-1-3 HCAPLUS
 43 1,1,2,2-tetrahydro-1,2,4-benzoxazine-3-carboxylic acid, 1-fluoromethyl ester, (3S,4S)- 901 CA INDEX NAME

Absolute stereochemistry.



44 114449-4-1-4 HCAPLUS
 44 1,1,2,2-tetrahydro-1,2,4-benzoxazine-3-carboxylic acid, 1-(2-fluorophenyl) ester, (3S,4S)- 901 CA INDEX NAME

Absolute stereochemistry.

[illegible]

SUBJECT: [REDACTED] - [REDACTED]

[illegible]

10



214549-66-3P 214549-71-0P 214549-76-5P

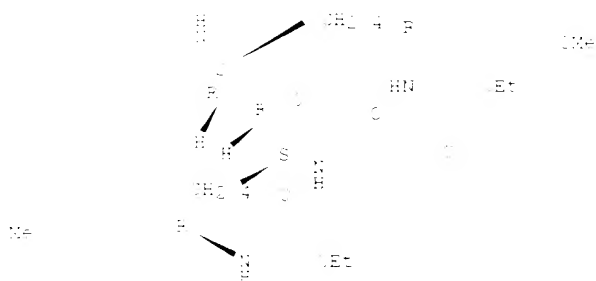
214549-77-6P 214549-78-7P 214549-80-1P

prepn. of linear sym. **diaminodiols** building blocks from cyclic diols and pinacol coupling of amino aldehydes

[illegible]

14: 4S,4'S,5R,5'E-2,2'-dioxol[5,5'-bioxazolidine]-4,4'-
 dithiolane-1,1'-dimethoxymethoxy-methyl]-8,1-pentanedithiol-1,1'-bis-, diethyl
 ester; CAS INDEX NAME.

Absolute stereochemistry.

[illegible]

11 1,4-DIAMINE ACID, N-4S,4'S,5R,5'S-1,2'-bis[3,3'-bis(methylamino)-4,4'-
11 1,1'-di(1,3'-1,1'-bis(methoxymethoxy)methyl)-5,5'-biphenyl]-bis-, diethyl-
11 11 11 OR INDEX NAME

ACKNOWLEDGMENTS

[illegible][illegible]

THE UNIVERSITY OF CHICAGO PRESS

24-49-11 HCAFLOS

1H-1',3'-diisopropyl-4,7'-diisobutyl-1H-1',3'-methoxymethoxy methyl-5,5'-
propenylidenebis-, diethyl ester 401 CA INDEX NAME

Absolute stereochemistry.

[illegible][illegible]

[illegible][illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the medium containing 100 mg/l of tetracycline. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results are the mean of three independent experiments. Error bars represent standard deviation.

[illegible]

```

N = -CH2-CH2-CH2, R = ethoxycarbonyl, -t-Bu, ethoxycarbonyl, amino, -x-fluoro-,
R=H or ester, SO = SO2   (A INDEX NAME)

```

ACKNOWLEDGMENTS

[illegible]

10. *Journal of the American Medical Association*, 1990; 263: 1025-1028.

51-35-4, trans-4-Hydroxy-L-proline 65-71-4, Thymine
71-30-7, Uracine 73-24-5, Adenine, reactions
96-32-2, Methyl bromacetate 98-88-4, Benzoyl chloride
103-82-2, Phenylacetic acid, reactions 105-36-2, Ethyl
acetate 107-95-9, 3-Aminopropionic acid 108-30-5,
reactions 112-35-6, Triethylenedipicol dimethyl ether
112-47-0, 1,1-Dichloroethane 288-32-4, Imidazole, reactions
534-03-2, 1-Amino-1,3-propanediol 624-49-7
5437-45-6, Benzyl bromacetate 15496-36-3,
N,N-Diethyl-2-ethylamine 24324-17-2, 3-Pentadecanone
28920-43-6 40615-36-9
5137-7-8, Benzene

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[illegible]

^a Values are means ± SD.

[illegible]

10

Figure 1: Schematic representation of the experimental design. The diagram shows a sequence of events: 'Stimulus' (a box with a question mark), 'Response' (a box with a question mark), 'Feedback' (a box with a question mark), and 'Outcome' (a box with a question mark). Arrows indicate the flow from Stimulus to Response, Response to Feedback, and Feedback to Outcome. A feedback loop arrow connects Outcome back to Stimulus.

$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{4}$

[illegible]

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IN	IN-FLIGHT	FLIGHTS	IN-FLIGHT-C-ARRIVE	POI	CA INDEX NAME
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7	7	7	7	7	7
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74	74	74	74	74	74

[illegible]

01 4-10-77 HCR:RUC
02 ACRYLIC ACID, BISPHENOL A, METHYL ESTER: 101, 101, 101, 101 SA INDEX NAME

APPENDIX

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00

11. 11/11/11 11/11/11 11/11/11

$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

[illegible]

40 100-100-1 HCAPIUS
 41 100-100-1 HCAPIUS - methyl ester 601, 701, 801 CA INDEX NAME

42 100-100-1 HCAPIUS

43 100-100-1 HCAPIUS
 44 100-100-1 HCAPIUS - 601, 701, 801 CA INDEX NAME

45 100-100-1 HCAPIUS

46 100-100-1 HCAPIUS
 47 100-100-1 HCAPIUS - 601 CA INDEX NAME

48 100-100-1 HCAPIUS
 49 100-100-1 HCAPIUS - 601, 701, 801, 901 CA INDEX NAME

50 100-100-1 HCAPIUS - 601, 701, 801, 901

51 100-100-1 HCAPIUS
 52 100-100-1 HCAPIUS - 601, 701 CA INDEX NAME

53 100-100-1 HCAPIUS

54 100-100-1 HCAPIUS
 55 100-100-1 HCAPIUS - 601 CA INDEX NAME

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58 100-100-1 HCAPIUS
 59 100-100-1 HCAPIUS - 601, 701, 801, 901 CA INDEX NAME

60

61 100-100-1 HCAPIUS

62 100-100-1 HCAPIUS
 63 100-100-1 HCAPIUS - 601 CA INDEX NAME

100-100-1 HCAPIUS - 601, 701, 801, 901

171486-10-5P 171486-11-6P 172525-38-1P
 172525-40-5P 172525-48-3DP, 172525-48-4P
 172525-49-4DP, 172525-48-5P 172525-84-7P
 178113-42-3P 178113-43-4P 178113-44-5P
 186429-52-7P 186429-53-8P 186429-54-9P
 186429-55-0P 186429-56-1P 186429-57-2P

combinatorial libraries having aminodiol

171486-10-5P
 171486-11-6P
 172525-38-1P
 172525-40-5P
 172525-48-3DP, 172525-48-4P
 172525-49-4DP, 172525-48-5P
 172525-84-7P
 178113-42-3P
 178113-43-4P
 178113-44-5P
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 186429-53-8P
 186429-54-9P
 186429-55-0P
 186429-56-1P
 186429-57-2P

171486-10-5P

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 186429-57-2P

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 186429-56-1P
 186429-57-2P

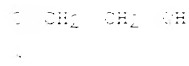
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$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

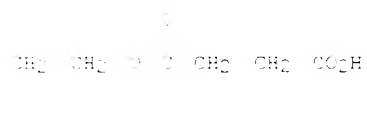


HN 11-675-3-1 HCARLUS

IN	1-[[[4-(4-methoxyphenyl) phenyl]methoxy]-	SCI	CA INDEX NAME
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54 *Journal of Management Inquiry* 15(1)

01 Etiheanol acid, mono-1-(bis 4-methoxyphenyl phenylmethoxylethyl) ester
02 C.I. INDEX NAME



V

F **A**

10 5-phenyl-1,3-dioxane, monochloride 4-methoxyphenyl phenylmethoxy, phenyl, phenyl

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD). The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD). The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD).

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$
 $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$
 $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$
 $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$
 $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$

1.0 0.5 0.0 -0.5 -1.0

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly. The user has reported that the system is not working properly, and the user has provided some information about the problem. The first step is to identify the problem.

[illegible]

Figure 1

Journal of Management Education 30(6)p.789-804
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<http://www.sagepub.com/journalsPermissions.nav>

5. 2,4-Dihydropyrimidine-6-carboxylic acid, 4-benzoylamino-2-oxo- 811 13 INREX

Fig. 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

6. 7. 8.

Figure 1. Schematic diagram of the experimental setup. The subject is seated in a chair, viewing a video screen. The screen displays a target (a red dot) and a starting point (a black dot). The subject's hand is positioned at the starting point. The distance between the starting point and the target is 10 cm. The subject is instructed to move the hand from the starting point to the target. The video screen is 100 cm high and 100 cm wide. The starting point is 50 cm from the bottom edge of the screen. The target is 50 cm from the top edge of the screen. The subject's hand is 50 cm from the bottom edge of the screen. The distance between the starting point and the target is 10 cm. The subject is instructed to move the hand from the starting point to the target.

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

14. 2,3,4,5-tetrahydro-1H-pyridine-2-carboxylic acid, mono-(9H-fluoren-9-ylmethyl) ester (9) 34. THREE THREE

Figure 1 is a schematic representation of the experimental design. It shows a sequence of five steps: 1. A participant is shown a stimulus (a 3x3 grid of dots). 2. The participant is asked to identify the stimulus. 3. The participant is asked to identify the stimulus. 4. The participant is asked to identify the stimulus. 5. The participant is asked to identify the stimulus.

HN 10486-4-7 HCAPLUS

$$\frac{1}{2}(\frac{1}{2} + \frac{1}{2}) = \frac{1}{2} \quad \text{and} \quad \frac{1}{2}(\frac{1}{2} + \frac{1}{2}) = \frac{1}{2} \quad \text{and} \quad \frac{1}{2}(\frac{1}{2} + \frac{1}{2}) = \frac{1}{2} \quad \text{and} \quad \frac{1}{2}(\frac{1}{2} + \frac{1}{2}) = \frac{1}{2} \quad \text{and} \quad \frac{1}{2}(\frac{1}{2} + \frac{1}{2}) = \frac{1}{2}$$

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$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

1. 1,2-Dichloroethane, 95% (100 ml) with N,N-dimethylethanamine 100 ml

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

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Me

11 1,3,5-trisubstituted benzene
12 1,3,5-trisubstituted benzene, mono[1,3,5-trisubstituted-4-methoxyphenyl phenylmethoxy, deryl] ester
13 1,3,5-trisubstituted benzene

14 1,3,5-trisubstituted benzene
15 1,3,5-trisubstituted benzene
16 1,3,5-trisubstituted benzene

Me

17 1,3,5-trisubstituted benzene
18 1,3,5-trisubstituted benzene, mono[1,3,5-trisubstituted-4-methoxyphenyl phenylmethoxy, deryl] ester
19 1,3,5-trisubstituted benzene

20 1,3,5-trisubstituted benzene
21 1,3,5-trisubstituted benzene
22 1,3,5-trisubstituted benzene

Me

23 1,3,5-trisubstituted benzene
24 1,3,5-trisubstituted benzene, mono[1,3,5-trisubstituted-4-methoxyphenyl phenylmethoxy, deryl] ester
25 1,3,5-trisubstituted benzene

Me

26 1,3,5-trisubstituted benzene
27 1,3,5-trisubstituted benzene
28 1,3,5-trisubstituted benzene

Me

29 1,3,5-trisubstituted benzene
30 1,3,5-trisubstituted benzene, mono[1,3,5-trisubstituted-4-methoxyphenyl phenylmethoxy, deryl] ester
31 1,3,5-trisubstituted benzene



10

Me

10-11-41-1 HCAPLUS
 10-11-41-1 1,2-bis-4-methoxyphenyl phenylmethoxy - 10-11-41-1 CA INDEX NAME



10

Me

10-11-41-2 HCAPLUS
 10-11-41-2 1-Pyridinecarboxylic acid, 4-hydroxy-2- (hydroxymethyl) -,
 4-fluorenyl ester 101 CA INDEX NAME

H

10 H H

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CH

10-11-41-4 HCAPLUS
 10-11-41-4 1-Pyridinecarboxylic acid, 2-([bis-4-methoxyphenyl phenylmethoxy)methyl
 -4-hydroxy-, 4-fluorenyl ester 101 CA INDEX NAME

^a χ^2 test for independence. $\chi^2 = 10.1$, $df = 1$, $P < 0.001$.
^b χ^2 test for independence. $\chi^2 = 10.1$, $df = 1$, $P < 0.001$.
^c χ^2 test for independence. $\chi^2 = 10.1$, $df = 1$, $P < 0.001$.

1 1-111-44-1 RUM:103
 2 1-111-111-1, 1-111-4-4-methoxyphenyl phenyl(methoxy)methyl - 101 12
 3 (RUM: 103)

• • •

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EN 14-429-10-00  BSMPL03
OR 1-(pyrrolidin-2, 5-[[bis-(4-methoxyphenyl)-phenylmethoxy]methyl]-1-
phenylacetate - 90%  SA INDEX NAME

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[illegible]

• •

Me

| | | | | | |
|----|--|---------|--|--|----------|
| SN | 16-419-84-1 | HEAPLUS | | | |
| LN | 11,11-Tetrahydrododecan-10-ynoic acid, phenyl-ethoxy ester | | | | CA INDEX |
| | NAME | | | | |

[illegible][illegible]

[illegible]

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[illegible]

| Condition | Control (%) | MCI (%) | AD (%) |
|-----------|-------------|---------|--------|
| A | ~85 | ~65 | ~55 |
| B | ~80 | ~60 | ~50 |
| C | ~85 | ~65 | ~55 |
| D | ~80 | ~60 | ~50 |

This paper describes a general approach to rapid generation and screening of catalytic materials on electrode surfaces. The properties of the newly formed polymers, including catalytic performance, can be manipulated by varying the monomer feed ratio, solvent choice, and applied potential. Thus, the generation of the polymeric TEMPO (2,2,6,6-tetramethylpiperidin-1-yl) catalysis was performed by electrochem. copolym. of 1,1'-bithiophene with the TEMPO catalyst precursors onto pyrrole side chains. A **library** of catalyst films was obtained over a wide range of bithiophene pyrrole ratios upon repeated scanning of the applied potential from +0.1 to -1.4 V vs. Ag/AgCl. The resulting catalyst films were used in both chem. and electrochem. ox. of primary alcs. to aldehydes.

electrochem. prepn. and catalyst for oxidn. of primary alcs. to aldehydes

EN 1,35-41-4 HCARPLUS

IN 1-(piperidin-1-yl), 1,2,6,6-tetramethyl-4-[[1-oxo-3-(1H-pyrid-1-yl)propyl]amino]-, polymer with 2,2'-bithiophene 901 CA INDEX NAME

[illegible]

LEHRSTUHL FÜR PHYSIK UND ELEKTROSTATIK DER UNIVERSITÄT ZÜRICH
LEHRER: DR. J. H. SCHNEIDER

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A **combinatorial library** motif has been developed based
on intrinsically protected aminomethyl scaffolds. Amine functionality was
derivatized by α -methyl available electrophiles including carboxylic acids,
alkyl halides, isocyanates, and aldehydes. A pyroxylic moiety was
incorporated to a carbamate linkage, allowing a variety of amines to be
incorporated. The scaffold was anchored to Tentagel at the second
pyroxylic via a succinyl linker, which was hydrolyzed by mild aq. basic
conditions. The method was used to make a **library** of about
10,000 different members in mixts. of 5 per sample.

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1- β -isopropylidene-3-[[1,1-dimethylethyl(dimethylsilyl)oxy]-1-(4-
methoxyphenyl)methyl]-, 3R,5R - 9CI CA INDEX NAME

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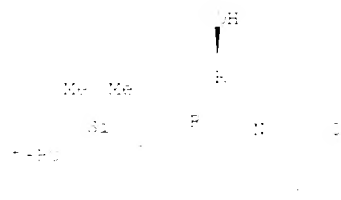
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1- β -isopropylidene-3-[[1,1-dimethylethyl(dimethylsilyl)oxy]-1-(4-
methoxyphenyl)methyl]-, 3R,5R - 9CI CA INDEX NAME

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1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.



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3 Zhu, J; Science 1993, V261, P3803 HCAPLUS
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5 Hauske, J; Tetrahedron Lett 1995, V36, P1589 HCAPLUS
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16. JOURNAL NAME (continued)

17. VOLUME, NUMBER, AND YEAR OF PUBLICATION (continued)

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Page 1

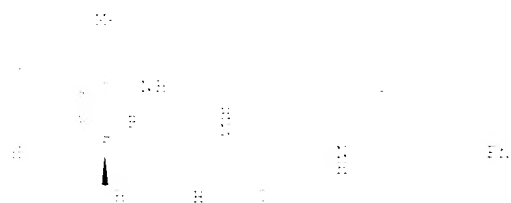
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THE UNIVERSITY OF CHICAGO PRESS

[illegible]

Ac. Life stere. chemistry.



17 219917-65-4P 219917-66-5P 219917-67-6P

EN: SAR: Biological activity or director, except adverse ; AIN: Synthesis ; Preparation ; BIL: Biological study ; PREP: Preparation ; CHEM: Enzymatic synthesis of aminocyclitol derivs., a useful library strategy for the development of selective acetyltransfer enzyme inhibitors

EN 219917-65-4 HCAPLUS

EN Acetamide, 1-amino-N-[(1R,3R,4R,5R,6S)-3,4,5-trihydroxy-2-(hydroxymethyl)-4-methyl-1-piperidinyl)methyl]-, (S)-, (S)- CA INDEX NAME

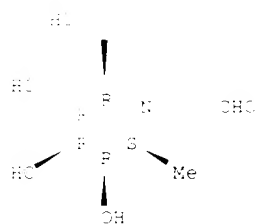
Ac. Life stere. chemistry.



EN 219917-66-5 HCAPLUS

EN 1-Piperidineacetaldenide, 3,4,5-trihydroxy-2-(hydroxymethyl)-4-methyl-, (1R,3R,4R,5R,6S)-, (S)-, (S)- CA INDEX NAME

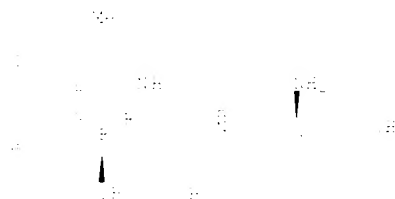
Ac. Life stere. chemistry.



EN 219917-67-6 HCAPLUS

EN Propanamide, 1-amino-3-hydroxy-N-[(1R,3R,4R,5R,6S)-3,4,5-trihydroxy-2-(hydroxymethyl)-4-methyl-1-piperidinyl)methyl]-, (S)-, (S)- CA INDEX NAME

Ac. Life stere. chemistry.



11 217298-94-7

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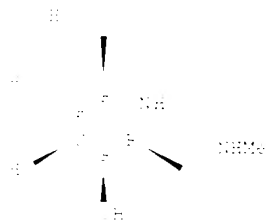


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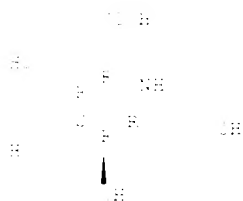
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BN 11989-70-5 HCAPLUS
 CN 1,4,5-trihydroxypiperidine-2-carboxylic acid, 3,4,5-trihydroxy-6-(hydroxymethyl)-, (2R,3R,4R,5R,6R) - PCI CA INDEX NAME

Analyte stereochemistry. Rotation + .



11 127995-29-3P, .alpha.-Homomannosirimycin 219589-70-5P
 219589-83-0P

BL: SPN Synthetic preparation; PREP Preparation
 intermediates for incorporation of tetrahydroxypiperidine acid analogs
 of mannopyranose into **combinatorial libraries**

BN 127995-29-3 HCAPLUS

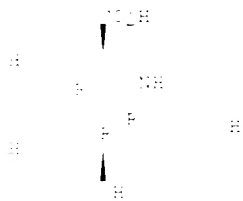
CN 1,4,5-Piperidinetriol, 2,6-bis(hydroxymethyl)-, (2R,3R,4R,5R,6R) - PCI CA INDEX NAME

Analyte stereochemistry. Rotation + .



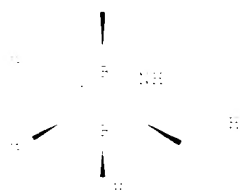
BN 11989-70-5 HCAPLUS
 CN 1,4,5-trihydroxypiperidine-2-carboxylic acid, 3,4,5-trihydroxy-6-(hydroxymethyl)-, (2R,3R,4R,5R,6R) - PCI CA INDEX NAME

Analyte stereochemistry. Rotation + .



MANUSCRIPT

1. 1,2,3,4-tetrahydronaphthalene-1,4-diol
2. 1,2,3,4-tetrahydronaphthalene-1,4-diol
3. 1,2,3,4-tetrahydronaphthalene-1,4-diol
4. 1,2,3,4-tetrahydronaphthalene-1,4-diol
5. 1,2,3,4-tetrahydronaphthalene-1,4-diol
6. 1,2,3,4-tetrahydronaphthalene-1,4-diol
7. 1,2,3,4-tetrahydronaphthalene-1,4-diol
8. 1,2,3,4-tetrahydronaphthalene-1,4-diol
9. 1,2,3,4-tetrahydronaphthalene-1,4-diol
10. 1,2,3,4-tetrahydronaphthalene-1,4-diol



REMARKS
1. Adams, M.; J Med Chem 1999, 42, 1855-1865
2. Adams, M.; J Nat Prod 1999, 62, 1015-1025
3. Carlucci, J.; J Org Chem 1999, 64, 1015-1025
4. Carlucci, J.; Tetrahedron:Asymmetry 1999, 10, 1015-1025
5. Carlucci, J.; J Biol Med Chem Lett 1999, 10, 1015-1025
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Page 10

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 10A-UV spectrophotometer.

[illegible]

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22 113-55-57-1
 23 113-55-57-2

$$\begin{array}{c} \text{H}_2\text{C} \\ | \\ \text{CH}_2 - \text{CH} - \text{CH}_2 \\ | \quad | \quad | \\ \text{H} \quad \text{H}_2\text{C} \quad \text{CH}_2 \\ | \quad | \quad | \\ \text{H} \quad \text{H} \quad \text{H} \end{array}$$

MAPACHEL 1.0 (1988)

W

PD 111-41-1
MP 111-41-1

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Me

CH CH₂

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PD 111-41-1
MP 111-41-1

Me PD

PD 111-41-1 HAPLUS
CH 1-Propenoic acid, 1-methyl-, 1-phenyl-2-[(2,2,6,6-tetramethyl-1-
piperidinyl oxy)ethyl ester, polymer with 4-ethenyl-1,1-dimethoxybenzene
CA INDEX NAME

W 1

PD 111-41-1
MP 111-41-1

Me Me
CH CH₂ C C Me
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W 1

PD 111-41-1
MP 111-41-1

Me

Me

CH CH₂

PD 111-41-1 HAPLUS
CH 1-Propenoic acid, 1-methyl-, 1-phenyl-2-[(2,2,6,6-tetramethyl-1-
piperidinyl oxy)ethyl ester, polymer with 1-ethenyl-1-phenyl-1-
CA INDEX NAME

W 1

PD 111-41-1
MP 111-41-1

[illegible]

1. $\frac{1}{2}$

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01  11:094-41-1  HWAPLUS
02  1-Propenoic acid, 1-methyl-, 1-phenyl-2-[(1,2,6,6-tetramethyl-1-
03  heptadienyl oxy)ethyl ester, polymer with 4-ethenyl-1,2-dimethoxynaphthene
04  and 1-methenyl-2-pyrrolidinone, graft 901  90A INDEX NAME
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06  1
07
08  11:094-57-1
09  MF  901 901 N 03

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[illegible]

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Figure 1 illustrates the experimental design with two scenarios. In the 'No interaction' scenario, a subject (S) is shown with a single arrow pointing to a box labeled 'No interaction'. In the 'Interaction' scenario, a subject (S) is shown with two arrows pointing to two boxes labeled 'Interaction'.

MARSHALL ISLANDS

1964

1

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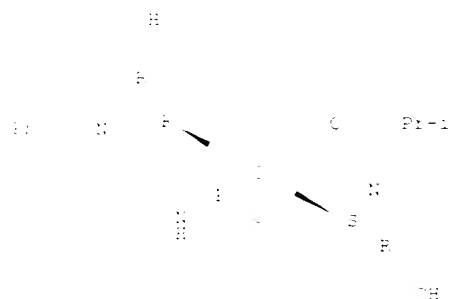
1964



BN 111871-48-1 HCAPLUS

CM Phosphoramidic acid, cyclopropyl-, 1-(1R,4S)-4-hydroxy-1-(1-methyl-4-nitro-1H-imidazol-1-yl)-1-(oxopropyl)amino, propyl 3S,5S-5-hydroxy-1-phenylmethyl-1-piperidinyl ester, rel- (R,R) CA INDEX NAME

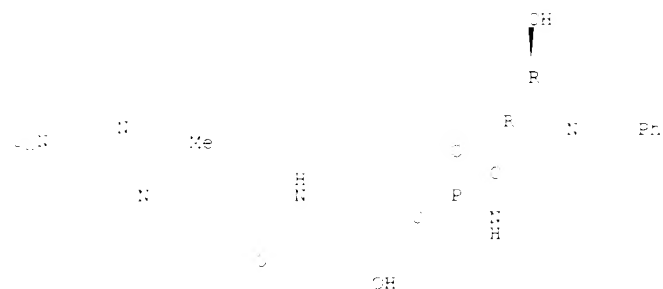
Relative stereochemistry.



BN 111871-48-1 HCAPLUS

CM Phosphoramidic acid, cyclopropyl-, 3-hydroxy-1-[(3S)-1-methyl-4-nitro-1H-imidazol-1-yl]-1-(oxopropyl)amino, propyl 3R,5R-5-hydroxy-1-phenylmethyl-1-piperidinyl ester, rel- (R,R) CA INDEX NAME

Relative stereochemistry.



BN 111871-48-1 HCAPLUS

CM Phosphoramidic acid, cyclopropyl-, 1-(1R,4S)-4-hydroxyethyl 3S,5S-5-hydroxy-1-phenylmethyl-1-(1-methyl-4-nitro-1H-imidazol-1-yl)-1-(oxopropyl)amino, ethyl 3R,5R-5-hydroxy-1-phenylmethyl-1-piperidinyl ester, rel- (R,R) CA INDEX NAME

Relative stereochemistry.



11,171-4-11 HCAPLUS

11,171-4-11 HCAPLUS, cyclopropyl-, (1S,4S)-4-hydroxy-1- (1-methyl-4-oxo-1H-imidazol-5-yl)-1-(2-methyl-2-pyrrolidinyl)methyl ester, rel- (S) (CA INDEX NAME)

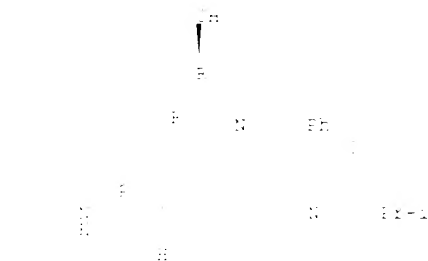
Relative stereochemistry.



11,173-4-11 HCAPLUS

11,173-4-11 HCAPLUS, cyclopropyl-, (1S,4S)-4-hydroxy-1- (1-methyl-4-oxo-1H-imidazol-5-yl)-1-(2-methyl-2-pyrrolidinyl)methyl ester, rel- (S) (CA INDEX NAME)

Relative stereochemistry.



11,175-4-11 HCAPLUS

11,175-4-11 HCAPLUS, cyclopropyl-, (1S,4S)-4-hydroxy-1- (1-methyl-4-oxo-1H-imidazol-5-yl)-1-(2-methyl-2-pyrrolidinyl)methyl ester, rel- (S) (CA INDEX NAME)

Relative stereochemistry.

MAPS 1981 1-1-1

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Page 11

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PAGE 1-A

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PAGE 1-A

MAP: WEL

WEL 101

WEL 101

● 101

WEL 101

WEL 101-74-1
WEL 101-81-1
WEL 101-82-1
WEL 101-83-1

WEL 101-84-1

WEL 101

WEL 101-42-1
WEL 101-43-1

WEL 101-44-1

SEARCHED BY JUDAN HANLEY

101-45-1

to the library exhibited were: books, periodicals, microfilm and in the form of tape. film & digitized materials. The libraries are accessed via links of the site web.

```
libraries are synthesized via coupling of the alkyl boronate groups with 4-tert-butylphenylboronic acid. The boronate ester is then converted to a boronic acid via hydrolysis. Finally, the boronic acid is coupled with 4-tert-butylphenylboronic acid to form the boronate ester. The boronate ester is then converted to a boronic acid via hydrolysis. Finally, the boronic acid is coupled with 4-tert-butylphenylboronic acid to form the boronate ester.
```

Cells transduced are identified by screening the libraries for
resistant and inhibitory activity against 1 to HIV and HIV-1. Transduced
cellulose displayed with special activity against 1 to HIV and HIV-1
is found are identified as being potentially resistant against 1 to HIV-1
inhibitory activity due to development of resistant strains 1 to HIV.

191850-51-8P 191850-52-9P 191850-63-2P

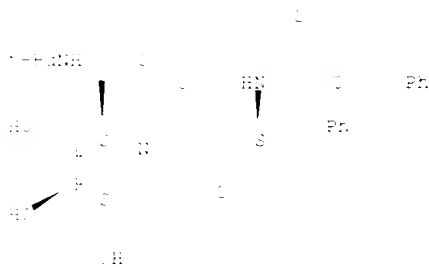
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191850-67-6P 191850-69-8P 191850-71-2P
191850-75-6P 191850-77-8P 191850-78-9P
191850-79-0P 191850-80-3P 191850-81-4P
191850-82-5P 191850-83-6P 191850-84-7P
191850-85-8P 191850-86-9P 191850-87-0P
191850-88-1P 191850-89-2P 191850-90-5P

THE FIRST RECOGNIZED ACTIVITY OF ENDOGENOUS, EXOGENOUS AND GENETICALLY
INDUCED MUTAGENESIS; THE INTERNATIONAL USE OF THIS MULTIDISCIPLINARY STUDY, 1985
PUBLISHED BY THE IARC MONOGRAPHS ON EVALUATION OF THE HUMAN CARCINOGEN RISK

[illegible]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |

10 Pyrimidine acid, [6-(1-[1,1-dimethylethyl] amino)carbamoyl]-3,4,5-trimethyl-
1-piperidinyl-, -[3-dioxo-1-phenylmethyl propyl]-, phenylmethyl ester,
[3-(1,1-dimethyl-3-beta,4-alpha,beta)-alpha,beta-gamma-lactone] CA INDEX NAME

[illegible]

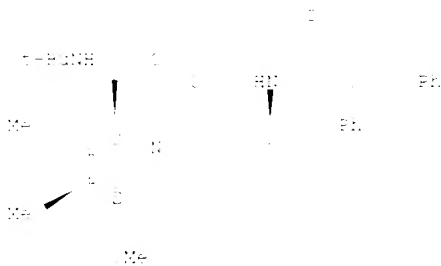
03 10450-51-0 HOSPITAL

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CN Carbamic acid, {3-[2-[[[1,1-dimethylethyl]amino]carbonyl]-3,4,5-trimethoxy-
1-piperidinyl]-2,3-dioxo-1-phenylmethyl}propyl-, phenylmethyl ester,
{4S-1- R', 2.alpha., 3.beta., 4.alpha., 5.beta.}- 901 CA INDEX NAME

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Absolute stereochemistry.

[illegible][illegible]

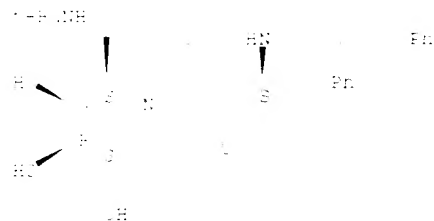
Absolute stereochemistry.



BN 1-1851-64-3 HCAPLUS

CH Carbamic acid, [1S-[2-[[1,1-dimethylethylamino]carbonyl]-3,4-bis(methoxy-1-piperidinyl)-1,3-dioxo-1-phenylmethyl propyl]-, phenylmethyl ester, (1S)-1 P*, 2.alpha.,3.alpha.,4.alpha.,5.beta.]]- HCl (CA INDEX NAME)

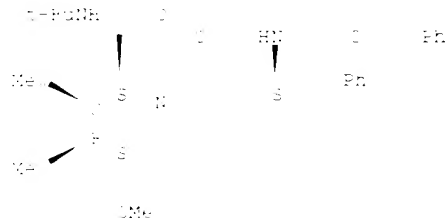
Absolute stereochemistry.



BN 1-1851-65-4 HCAPLUS

CH Carbamic acid, [1S-[2-[[1,1-dimethylethylamino]carbonyl]-3,4-bis(methoxy-1-piperidinyl)-1,3-dioxo-1-phenylmethyl propyl]-, phenylmethyl ester, (1S)-1 P*, 2.alpha.,3.alpha.,4.alpha.,5.beta.]]- HCl (CA INDEX NAME)

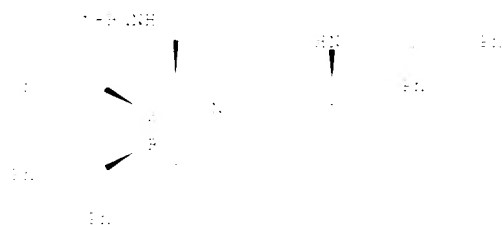
Absolute stereochemistry.



BN 1-1851-66-5 HCAPLUS

CH Carbamic acid, [1S-[2-[[1,1-dimethylethylamino]carbonyl]-3,4-bis(methoxy-1-piperidinyl)-1,3-dioxo-1-phenylmethyl propyl]-, phenylmethyl ester, (1S)-1 P*, 2.alpha.,3.alpha.,4.alpha.,5.beta.]]- HCl (CA INDEX NAME)

Absolute stereochemistry.



1a 1a1-80-61-1 HCAPLUS

1b Carbamic acid, [3-[[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2,3-dioxo-1-phenylmethyl-propyl]-, phenylmethyl ester, [2S-[1 R*,2.alpha.,3.beta.,4.alpha.,5.alpha.]]- PCI CA INDEX NAME

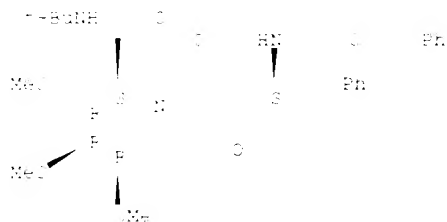
Absolute stereochemistry.



1b 1a1-80-69-8 HCAPLUS

1c Carbamic acid, [3-[[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2,3-dioxo-1-phenylmethyl-propyl]-, phenylmethyl ester, [1S-[1 R*,2.alpha.,3.beta.,4.alpha.,5.alpha.]]- PCI CA INDEX NAME

Absolute stereochemistry.



1c 1a1-80-70-1 HCAPLUS

1d Carbamic acid, [3-[[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2,3-dioxo-1-phenylmethyl-propyl]-, phenylmethyl ester, [1S-[1 R*,2.alpha.,3.beta.,4.alpha.,5.alpha.]]- PCI CA INDEX NAME

Absolute stereochemistry.

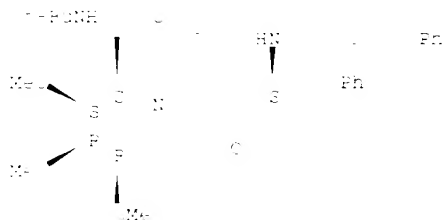
[illegible]

1. Name of the person: [REDACTED]
2. Date of birth: [REDACTED]
3. Place of birth: [REDACTED]
4. Nationality: [REDACTED]
5. Occupation: [REDACTED]
6. Address: [REDACTED]
7. Telephone: [REDACTED]
8. E-mail: [REDACTED]
9. Other information: [REDACTED]

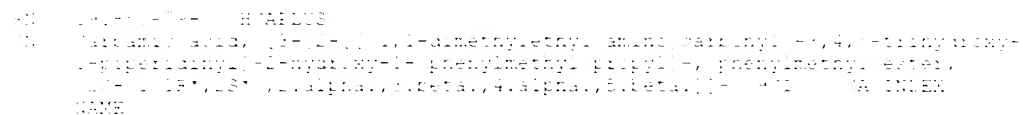
1. \mathcal{H}^1 is a separable Hilbert space.

[illegible][illegible]

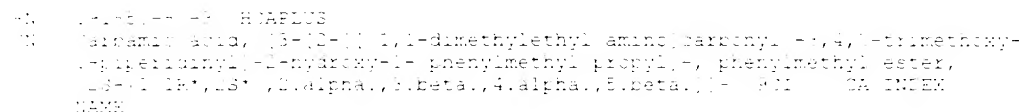
— J. S. — STEVE VERISTY.

[illegible][illegible]

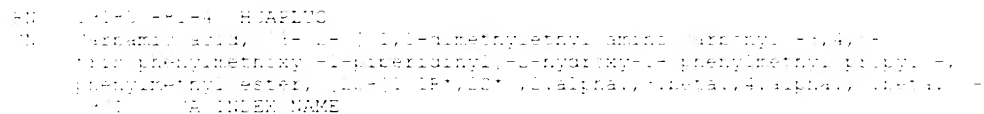
1. *Phragmites australis* (Cav.) Trin. ex Steud.



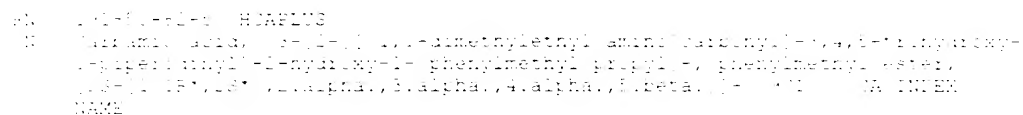
THE UNIVERSITY OF CHICAGO



ANALYTICAL STEREOCHEMISTRY.



ANALYST: STEPHEN C. HARRIS, JR.



ANALYST: S. J. COLEMAN, JR.



01 14101-93-0 HEPARUS
 02 Paribamic acid, (3-[2-[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-
 03 -1-piperidinyl)-2-hydroxy-1-phenylmethyl propyl-, phenylmethyl ester,
 04 (3S,1R*,2S*,1.alpha.,3.alpha.,4.alpha.,5.beta.)- 411 1A INDEX
 05 NAME

ANSWER: STEREONEMASTY.



PN 191650-04-7 HCAPLUS
 IN 1-aminic acid, (S)-[2-[1,1-dimethylethyl oximino]carbonyl-1,4,5-
 triisopropoxy-1-piperidinyl]-2-oxo-3-phenylmethyl propyl-,
 propylmethyl ester, (2S-[1 IP*,2S*,2.alpha.,3.alpha.,4.alpha.,5.alpha.
 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015

[illegible]



HN 10150-00-0 HCAPLUS
 CH Carbamic acid, [3-[2-[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2-hydroxy-1-phenylmethyl propyl]-, phenylmethyl ester, (1S,1'1P',1S'), 1.alpha.,3.beta.,4.alpha.,5.alpha.,- HCl CA INDEX
 NAME

Assiliate stereochemistry.



HN 10150-00-0 HCAPLUS
 CH Carbamic acid, [3-[2-[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2-hydroxy-1-phenylmethyl propyl]-, phenylmethyl ester, (1S,1'1P',1S'), 1.alpha.,3.beta.,4.alpha.,5.alpha.,- HCl CA INDEX
 NAME

Assiliate stereochemistry.



HN 10150-00-0 HCAPLUS
 CH Carbamic acid, [3-[2-[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-1-piperidinyl]-2-hydroxy-1-phenylmethyl propyl]-, phenylmethyl ester, (1S,1'1P',1S'), 1.alpha.,3.beta.,4.alpha.,5.alpha.,- HCl CA INDEX
 NAME

Assiliate stereochemistry.

[illegible][illegible]

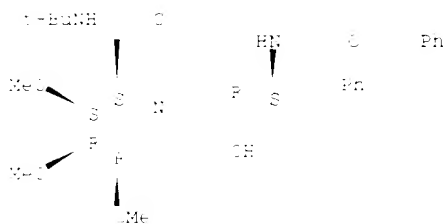
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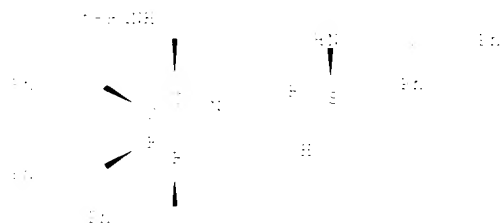
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W Carbamic acid, [3-[2-[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-
-peroxydiny]-1-hydroxy-1-(phenylmethyl)propyl]-, phenylmethyl ester,
[2S-[1P,2S]-2.alpha.,3.alpha.,4.alpha.,5.alpha.]]- CUI 3A INDEX
NAME

Also, with stereochemistry.

[illegible][illegible]

4.1.1.1. *Staphylococcus aureus*



19130-96-2

SM: RUT: Reactant

prepn. of hydroxyethylamine core structures as HIV and FIV protease inhibitors

SM: 19130-96-2: HCAPLUS

IN: 1,4,5-Piperidinetricarbonyl, 2-hydroxymethyl-, [2R,3R,4R,5S]- - 901 CA INDEX NAME

Absolute stereochemistry. Rotation +.



130539-12-7P 153373-56-9P 153373-57-0P
166411-19-4P 166411-20-7P 172139-94-5P
191850-39-2P 191850-40-5P 191850-41-6P
191850-42-7P 191850-43-8P 191850-44-9P
191850-45-0P 191850-46-1P 191850-47-2P
191850-48-3P 191850-49-4P 191850-50-7P
191851-30-6P 191851-31-7P 191851-32-8P
191851-33-9P 191851-34-0P 191851-35-1P
191851-36-2P 191852-19-4P 191852-23-0P

SM: RUT: Reactant; SPN: Synthetic preparation; PREP: Preparation

prepn. of hydroxyethylamine core structures as HIV and FIV protease inhibitors

SM: 130539-12-7: HCAPLUS

IN: 1-Piperidinecarboxylic acid, 3,4,5-trihydroxy-2-hydroxymethyl-, phenylmethyl ester, [2R-(2.alpha.,3.beta.,4.alpha.,5.beta.)]- - 901 CA INDEX NAME

Absolute stereochemistry.



SM: 130539-12-7: HCAPLUS

IN: 1-Piperidinecarboxylic acid, 3,4,5-tris(phenyloxy)-2-hydroxymethyl-, phenylmethyl ester, [2R-(2.alpha.,3.alpha.,4.alpha.,5.beta.)]- - 901 CA INDEX NAME

3. \mathbb{R}^n

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$



HN 1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl-1-piperidinecarboxamide, N-(1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl)-, (1R,3S,4R,5S)- [R1] CA INDEX NAME

Absolute stereochemistry.



HN 1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl-1-piperidinecarboxamide, N-(1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl)-, (1R,3S,4R,5S)- [R1] CA INDEX NAME

Absolute stereochemistry.



HN 1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl-1-piperidinecarboxamide, N-(1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl)-, (1R,3S,4R,5S)- [R1] CA INDEX NAME

Absolute stereochemistry.



HN 1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl-1-piperidinecarboxamide, N-(1,1,1-trimethyl-4,5,6-trimethoxy-2-phenylmethyl)-, (1R,3S,4R,5S)- [R1] CA INDEX NAME

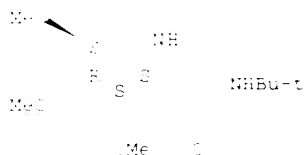
Absolute stereochemistry.



80 14185-44-9 HCAPLUS
 N-1,1-dimethylethyl-3,4,5-trimethoxy-
 1,2,3,4-tetrahydro-1H-2,3,4-benzoxazine-6-carboxamide
 CA INDEX NAME
 Absolute stereochemistry.



80 14185-44-9 HCAPLUS
 N-1,1-dimethylethyl-3,4,5-trimethoxy-
 1,2,3,4-tetrahydro-1H-2,3,4-benzoxazine-6-carboxamide
 CA INDEX NAME
 Absolute stereochemistry.



80 14185-44-9 HCAPLUS
 N-1,1-dimethylethyl-3,4,5-tris phenylmethoxy-
 1,2,3,4-tetrahydro-1H-2,3,4-benzoxazine-6-carboxamide
 CA INDEX NAME
 Absolute stereochemistry.



80 14185-44-9 HCAPLUS
 N-1,1-dimethylethyl-3,4,5-tris phenylmethoxy-
 1,2,3,4-tetrahydro-1H-2,3,4-benzoxazine-6-carboxamide
 CA INDEX NAME
 Absolute stereochemistry.

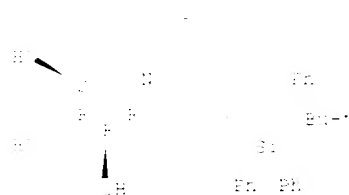
PN 1-1851-11-11 HOAPLUS
 IN 1-Piperidinecarboxylic acid, 2-[[[1,1-dimethylethyl diphenylsilyl]oxy]methyl]-3,4,5-trimethoxy-, phenylmethyl ester, [(2R,3R,4R,5R)-2,3,4,5-tetramethoxy-2-phenyl-1,2,3,4-tetrahydronaphthalen-1-yl]- (901) CA INDEX NAME

Absolute stereochemistry.



PN 1-1851-11-11 HOAPLUS
 IN 1-Piperidinecarboxylic acid, 2-[[[1,1-dimethylethyl diphenylsilyl]oxy]methyl]-3,4,5-trimethoxy-, phenylmethyl ester, [(2R,3R,4R,5R)-2,3,4,5-tetramethoxy-2-phenyl-1,2,3,4-tetrahydronaphthalen-1-yl]- (901) CA INDEX NAME

Absolute stereochemistry.



PN 1-1851-11-11 HOAPLUS
 IN 1-Piperidinecarboxylic acid, 2-[[[1,1-dimethylethyl diphenylsilyl]oxy]methyl]-3,4,5-trimethoxy-, phenylmethyl ester, [(2R,3R,4R,5R)-2,3,4,5-tetramethoxy-2-phenyl-1,2,3,4-tetrahydronaphthalen-1-yl]- (901) CA INDEX NAME

Absolute stereochemistry.



PN 1-1851-11-11 HOAPLUS
 IN 1-Piperidinecarboxylic acid, 2-hydroxymethyl-3,4,5-trimethoxy-, phenylmethyl ester, [(2R,3R,4R,5R)-2,3,4,5-tetramethoxy-2-phenyl-1,2,3,4-tetrahydronaphthalen-1-yl]- (901) CA INDEX NAME

Absolute stereochemistry.



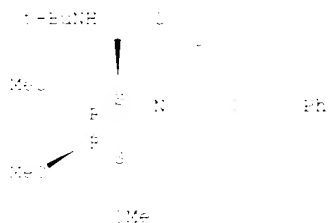
BN 19181-14-1 HCAPLUS
 CH 1,2-Piperidinedicarboxylic acid, 3,4,5-trimethoxy-, 1-phenylmethyl ester, [2S-[2.alpha.,3.beta.,4.alpha.,5.beta.]]- 901 CA INDEX NAME

Absolute stereochemistry.



BN 19181-14-1 HCAPLUS
 CH 1,2-Piperidinedicarboxylic acid, 1-[[1,1-dimethylethyl amino]carbonyl]-3,4,5-trimethoxy-, phenylmethyl ester, [2S-[2.alpha.,3.beta.,4.alpha.,5.beta.]]- 901 CA INDEX NAME

Absolute stereochemistry.



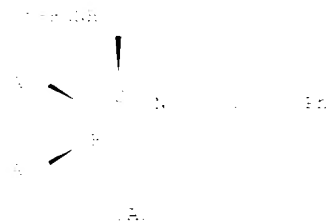
BN 19181-15-1 HCAPLUS
 CH 1,2-Piperidinedicarboxylic acid, 3,4,5-tris acetyloxy -, 1-phenylmethyl ester, [2S-[2.alpha.,3.alpha.,4.alpha.,5.beta.]]- 901 CA INDEX NAME

Absolute stereochemistry.



BN 19181-15-1 HCAPLUS
 CH 1,2-Piperidinedicarboxylic acid, 3,4,5-tris acetyloxy -, 1-[[1,1-dimethylethyl amino]carbonyl]-, phenylmethyl ester, [2S-[2.alpha.,3.alpha.,4.alpha.,5.beta.]]- 901 CA INDEX NAME

Absolute stereochemistry.



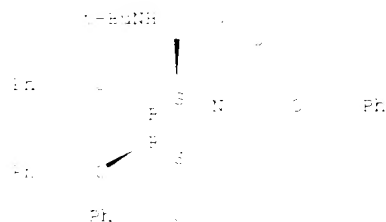
RN 191551-10-4 REAPLUS
 CN 1-phenylpiperidinecarboxylic acid, 3,4,5-tris phenylmethoxy -, (1S,2S,3S,4S,5S)- phenylmethyl ester, (1S,2S,3S,4S,5S)- 9CI CA INDEX NAME

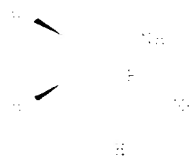
Absolute stereochemistry.



RN 191551-10-5 REAPLUS
 CN 1-phenylpiperidinecarboxylic acid, 2-[[[1,1-dimethylethylamino]carbonyl]-3,4,5-tris phenylmethoxy -, (1S,2S,3S,4S,5S)- phenylmethyl ester, (1S,2S,3S,4S,5S)- 9CI CA INDEX NAME

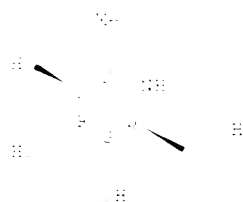
Absolute stereochemistry.





01 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide
 02 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide, 1,2,3,4-tetrahydro-1H-pyridine-1-carboxamide
 03 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide

Absolute stereochemistry Rotation +.



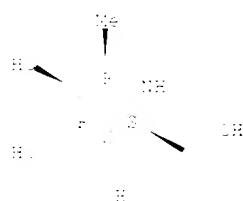
01 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide
 02 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide, 1,2,3,4-tetrahydro-1H-pyridine-1-carboxamide
 03 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide

Absolute stereochemistry Rotation +.



01 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide
 02 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide, 1,2,3,4-tetrahydro-1H-pyridine-1-carboxamide
 03 1,2,3,4-Tetrahydro-1H-pyridine-1-carboxamide

Absolute stereochemistry Rotation +.



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AB 26587-22-4 HOAPLUS COPYRIGHT 1961 AND

AD 26587-22-4 HOAPLUS

AC 26587-22-4

AD 26587-22-4 separating liquid mixtures

AD 26587-22-4 Liquid Membranes (Hill-Emm. Chemical Industry Inc. Inc.)

AD 26587-22-4 Liquid Membranes (Hill-Emm. Chemical Industry Inc. Inc.)

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AD 26587-22-4 selectively permeable membranes for sepn. of azeotropic distillates and

AD 26587-22-4 other liq. mixts. with good sepn. efficiency and **high**AD 26587-22-4 **throughput** are composites of numerous hydrophilic and hydrophobic

AD 26587-22-4 films. Thus, 90:10 copolym. poly vinyl acetate and poly vinyl

AD 26587-22-4 pyrrolidone 90:10 were combined wt. ratio 1:1 in water, cast

AD 26587-22-4 on a glass plate, and dried at room temp. to form a composite film

AD 26587-22-4 1 mil. thick. A 50:50 film of silicone rubber derived from

AD 26587-22-4 dimethyl polysiloxane 1:1, MeSi-CH₃-MeEt 1:1, and butyl silicate 1:1

AD 26587-22-4 was cast on top of the film and dried at room temp. to form a 10-mil.

AD 26587-22-4 composite membrane. When a section of the membrane was placed in a sepn.

AD 26587-22-4 device with a 50:50 C₆H₆-MeOH mixt. on the hydrophilic side and reducedAD 26587-22-4 pressure (at mm Hg) on the silicone side, the permeation fluxes of C₆H₆AD 26587-22-4 and MeOH were 5,000 and 1,000 g./cm²-h, resp.

AD 26587-22-4

AD 26587-22-4

AD 26587-22-4 hydrophobic polymer film laminates, permselective, for sepn. of liq.

AD 26587-22-4 mixts.

AD 26587-22-4 HOAPLUS

AD 26587-22-4 1-Isopropylidene, 1-ethenyl-, homopolymer (901) CA INDEX NAME

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Combinatorial solid-phase synthesis of 1,2-diol derivatives and
aminodiolols.10-10-1991 10:10:10 10:10:10 10:10:10 10:10:10 10:10:10
Combinatorial Molecular Chemistry, 1010 Pennsylvania Avenue, N.W., Washington, D.C. 2000410-10-1991 10:10:10 10:10:10 10:10:10 10:10:10 10:10:10
Abstracts, 1010 A.D. National Meetings, Las Vegas, NV, September
10-10-1991, 1010-10. Publisher: American Chemical Society, Washington, D.C.10-10-1991 10:10:10 10:10:10 10:10:10 10:10:10 10:10:10
1010-10.10-10-1991 10:10:10 10:10:10 10:10:10 10:10:10 10:10:10
1010-10.10-10-1991 10:10:10 10:10:10 10:10:10 10:10:10 10:10:10
library of approx. 10,000 compounds, based on aminodiol

1010-10. has been prepared. The scaffolds are attached to Tentagel at the
1010-10. via a base-labile carbonate linker, then derivatized with
different electrophiles at the nitrogen to yield ureas, sulfonamides,
amides, and tertiary amines. The second hydroxyl is converted to an acyl
amide with benzoyl azimide, then further converted to a carbonate
with a variety of amines. The mild linking chem. is amenable to use with
1010-10. available protected and unprotected reagents, thus allowing a variety
of reactive groups to be introduced while avoiding labile groups. 1010-10.
protected reagents. The compounds were synthesized at a rate of 1010-10.
1010-10. per day is 1010-10. of five compounds per well using a 1010-10. parallel
1010-10. or well synthesizer. Complete synthetic details and preliminary
1010-10. data for this set of compounds will be presented.

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09 ANSWER : F.L. HOPKINS "COPYRIGHT LAW AND  
10 IN THE UNITED STATES"  
11  
12 COMMENTS:  
13 COMBINATORIAL TECHNIQUES AND combinatorial libraries  
14 involved in their biological activity,  
15 Edw. Hopkings Inst., Yaching  
16 Louis B. Brownson, Inc., USA  
17 Int. Appl. Pat. No.  
18 PCT/US88/00001  
19 Patent  
20 Author:  
21 Date:
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[illegible]

[illegible][illegible]

^a The number of subjects who were included in each group was determined by the number of subjects who completed the study.

Table 1. *Salmonella* serotypes and their associated diseases

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1. The first group of people who are interested in the results of the study are the researchers themselves. They want to know how well the study was conducted and whether the results are reliable and valid. They also want to know how the results can be used to improve the study and to answer the research question.

10. William Alexander James Bailey, Louis Thomas, and Robert Herbert
Mason, Maurice Louis Gault, and Robert Joseph Gault, and

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

[illegible][illegible]

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1. *Chlorophyll a* (Chl *a*)

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

8: AE, AL, AC, BA, BB, BG, BR, JA, SA, SE, SV, VE, VM, VE, SE, SE.

33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52,

ME, MN, NY, DC, NE, RI, SD, SG, SI, SK, SL, SR, ST, TA, TG, TH,

VR, VC, CA, AM, AZ, BY, EG, FZ, ME, RU, TC, TY

FW: JH, GM, HE, LC, MW, SL, SL, SZ, T2, UG, ZW, AT, BE, CH, CY, DE,

$$1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,$$

CS, CL, CM, CA, CN, CW, ME, MR, NE, ON, TO, TC

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

1. *What is the purpose of this study?*

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[illegible]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

10. The following are the major findings of the study:

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| PATENT NO. | | FILING DATE | | APPLICATION NO. | | DATE | |
|------------|---------|-------------|----------|-----------------|---------|----------|----|
| AL | 1100101 | AL | 19991010 | W | 1100101 | 19991010 | |
| AR | AR | AR | AR | BR | BR | BR | BR |
| CA | CA | CA | CA | CH | CH | CH | CH |
| DE | DE | DE | DE | DK | DK | DK | DK |
| ES | ES | ES | ES | FR | FR | FR | FR |
| GB | GB | GB | GB | GR | GR | GR | GR |
| IE | IE | IE | IE | IT | IT | IT | IT |
| JP | JP | JP | JP | KR | KR | KR | KR |
| MX | MX | MX | MX | NO | NO | NO | NO |
| PL | PL | PL | PL | PT | PT | PT | PT |
| RU | RU | RU | RU | SE | SE | SE | SE |
| SG | SG | SG | SG | SI | SI | SI | SI |
| SK | SK | SK | SK | TR | TR | TR | TR |
| UA | UA | UA | UA | US | US | US | US |
| UK | UK | UK | UK | WO | WO | WO | WO |
| US | US | US | US | ZA | ZA | ZA | ZA |
| WO | WO | WO | WO | | | | |
| AL | AL | AL | AL | AR | AR | AR | AR |
| CA | CA | CA | CA | CH | CH | CH | CH |
| DE | DE | DE | DE | DK | DK | DK | DK |
| ES | ES | ES | ES | FR | FR | FR | FR |
| GB | GB | GB | GB | GR | GR | GR | GR |
| IE | IE | IE | IE | IT | IT | IT | IT |
| JP | JP | JP | JP | KR | KR | KR | KR |
| MX | MX | MX | MX | NO | NO | NO | NO |
| PL | PL | PL | PL | PT | PT | PT | PT |
| RU | RU | RU | RU | SE | SE | SE | SE |
| SG | SG | SG | SG | SI | SI | SI | SI |
| SK | SK | SK | SK | TR | TR | TR | TR |
| UA | UA | UA | UA | US | US | US | US |
| UK | UK | UK | UK | WO | WO | WO | WO |
| US | US | US | US | ZA | ZA | ZA | ZA |
| WO | WO | WO | WO | | | | |

The title compounds: I [wherein R1 = H, CH, alkyl, alkoxy, halo, CF3, or CN; R2-R5 = independently H, CH, halo, CF3, alkyl, alkoxy, N3, CN, or C(=O)NHMe; n=CH2, n-R9, where R9 = H, CH, CO2H, or NR10R11; m = 0 or 1; n = -4; R10 and R11 = H, alkyl, or taken together with the N to which they are attached form a 3-10 membered ring; 2 = CO2R7, tetrazolyl, CONR6R7, NHCNHR10R11, or CH2OR7; R6 and R7 = independently H, cycloalkyl, alkynyl, alkynyl, acyl, heteroaryl, or taken together with the N to which they are attached form a 3-10 membered ring, etc. were prepd. by (a) or **combinatorial** synthetic methods involving the addn. of halogenated acids to nitrilamines and optional rean. or amidation of the add. Thus, treatment of 2-amino-6-iodotoluene in THF with LDA in THF/heptane/ethenylbenzene soln., followed by addn. of 2,4-difluorophenol in THF afforded 11. Combination chemotherapy of 1 with a known mitotic agent caused dramatic increases of apoptosis of colon and lung carcinoma cells. For instance, 1- (2-chloro-4-iodophenylamino)-N-(2-propylmethoxy)-2,4-difluorophenamide (PD 184354) in combination with irinotecan resulted in 44 to 55 apoptosis, not 15 increases that result either agent alone, of colon & carcinoma, HT-29 colon carcinoma, and A549 lung carcinoma cells.

1946-1947 ASIA W. JOURNAL A 1947 HEADING
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1946-1947 ASIA W. JOURNAL B JANUARY 1947, Vols II , 1947 HEADING
1946-1947 ASIA W. JOURNAL C 1948 HEADING

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h at 28°C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h at 28°C. The plant tissue was then cultured on the selective medium. The transformation efficiency was calculated as the number of transformants per 100 mg of plant tissue. The data are the mean values of three independent experiments.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer.

$$A_{\text{eff}} = \frac{\pi}{4} \left(\frac{D_0}{L} \right)^2 \left[\frac{1}{2} + \frac{1}{2} \left(\frac{L}{D_0} \right)^2 \right] \quad (1)$$
[illegible][illegible]

10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 8

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

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1. *Journal of the American Medical Association*, 1997; 278: 1023-1028.

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 10A-UV spectrophotometer. The concentration of chlorophylls was expressed in $\mu\text{g mL}^{-1}$ of the sample.

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

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The title compounds: R_1 [wherein $R_1 = H, OH, alkyl, alkoxy, halo, CF_3$, or CH_3 ; $R_2-R_5 =$ independently $H, OH, halo, CF_3, alkyl, alkoxy, halo, CH_3$, or CH_2R^6 ; or $CH_2R^6-R_5$, where $R^6 = H, OH, CO_2H$, or NR_1OR_1 ; $m = 0$ or 1 ; $n = 1-4$; R_1 and $R_2 = H, alkyl$, or taken together with the N to which they are attached form a 3-10 membered ring; $Z = CO_2R^7$, tetrazolyl, $CONR^6R^7$, $CONHNHCO_2R^7$, or $CH_2CO_2R^7$; R^6 and $R^7 =$ independently $H, cycloalkyl, alkaryl, alkynyl, acyl, heteroaryl$, or taken together with the N to which they are attached form a 3-10 membered ring, etc.] were prepd. by std. or **combinatorial** synthetic methods involving the addn. of halobenzoic acids to haloanilines and optional redn. or amidation of the acid. For example, treatment of 2-amino-5-iodotoluene in THF with LDA in THF heptane/ethanyletane soln., followed by addn. of 1,4-difluorobenzoic acid in THF afforded II. In assays against type II collagen induced arthritis in mice and monoarticular arthritis in rats, I showed potent anti-arthritic activity. I inhibited IL-1 induced stromelysin release in rabbit synovial fibroblast cell cultures with IC_{50} from $4 \mu M$ to $10 \mu M$. Interleukin 1-alpha stimulated cartilage degran. was reduced by $10^{-6} M$ in New Zealand white rabbits upon administration of I. Thus, I are potent MMP inhibitors useful in the prevention and treatment of rheumatic arthritis or osteoarthritis.

TABLE 1

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

1. Synthesis of 4-ethoxy-2-phenyl-1,3-dioxane and 4-ethoxy-2-phenyl-1,3-dioxane derivatives

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diol attached to the head of the functionality. The functional group is selected from either a guanine or pyrimidine substituted diol, a substituted heterocycle, an a functional diol attached to a hydrophobic functionality or a vitamin. diol attached to an aliphatic aliphatic hydrophobic functionality. A diol attached to a functional substituted amino functionality and the diol may be directly attached to a non-vinylal or aliphatic diol, any of which can further include a detectable label, which is selected from interferon, nucleotides include a non-vinylal group of either vinyl diols, aliphatic diols, and pyrimidine diols. Also, the non-nucleotide numbers thereof, combinatorial library mixtures, and the mixtures and the mixtures are selective target-binding compounds, are described, for example, in a simple combinatorial phosphonate which was synthesized in a combinatorial library selection against IL-4 and IL-12, and, targets is required.

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

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1. *Chlorophyll a* (Chl *a*) and *Chlorophyll b* (Chl *b*) were determined using the method of Arar and Collins (1997). The concentration of Chl *a* and Chl *b* was expressed as $\mu\text{g mL}^{-1}$ of the sample.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

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17. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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1. *Chlorophyll a* (Chl *a*)

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| PATENT NO. | | FILE | DATE | INVENTOR NO. | DATE |
|------------|------------|------|-----------|----------------|----------|
| 17 | US 5549579 | A | 199908109 | US 1997-068567 | 19971106 |
| | US 5932646 | A | 19990803 | US 1996-168040 | 19961007 |
| 18A1 | US 5847455 | | 19971106 | | |

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the experimental group (EG). The EG was divided into two subgroups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the experimental group (EG). The EG was divided into two subgroups: the control group (CG) and the experimental group (EG).

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48 In the solid phase prepn. of an amine a diol is monoalkylated with a chloromethyl resin followed by reaction with N,N'-dimethylimidazole to afford a resin-bound tertiary-alkylcaronylimidazole which is N-alkylated and then sequentially treated with appropriate building blocks and reagents to afford a resin-bound amine which affords the desired amine after treatment with an acid. Thus, H₂NCH₂CH₂OMeOH was linked to Merrifield resin and treated with dimethylimidazole to give the resin-bound alkylcaronylimidazole which was treated with L-leucine Me ester hydrochloride to give resin-bound H₂NCH₂CH₂OMeOCCC-L-Leu-OMe. The methylester was converted to the hydrazine, treated with PhCH₂NCS and cleaved from the resin with 6N HCl to give the triazole 1.

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• **Prevalence:** 10% of the population has a mental health condition.

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11 Identical to 10, an opioid receptor selective antagonist. **piperidine**
 12 **piperidine**
 13 Michael, James E., Hall, Michael J., Cooper, John E., Thomas, Edward E.,
 14 Vis, Maria J., Warner, M., Hahn, Barbara, J., et al., 1990, J. Neurosci. 10,
 15 1111-1120. 1990, J. Neurosci. 10, 1111-1120.
 16 1990, J. Neurosci. 10, 1111-1120.
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 18 1990, J. Neurosci. 10, 1111-1120.
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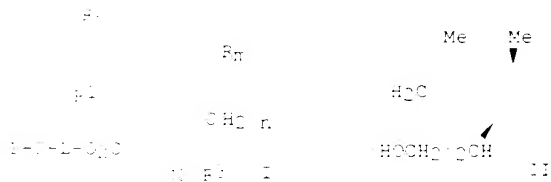
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AB A three-component library of compds. was prepd. in parallel
 using multiple simultaneous solid-phase synthetic methods. The compds.
 were classed toward opioid receptor antagonist activity by incorporating
 a 3,4,5-trimethoxy-4'-hydroxyphenyl **piperidine** a potent,
 nonselective opioid pure antagonist as one of the monomers. The other
 two monomers were N-substituted or unsubstituted Boc-protected amino acids
 and a range of substituted aryl carboxylic acids and were selected to add
 chem. diversity. Screening of these compds. in competitive binding expts.
 with the μ -opioid receptor selective ligand [3H]U69,593 led to the
 discovery of a novel μ -opioid receptor selective ligand, RTI-5555-19
 1. Anal. structure-activity relationship studies suggested that 1
 possesses lipophilic and hydrogen-bonding sites that are important to its
 opioid receptor potency and selectivity. These sites appear to exist
 predominantly within the μ -receptor since the selectivity arises
 from a 100-fold loss of affinity of 1 for the δ -receptor and an 18-fold
 increase in affinity for the μ -receptor relative to the
 δ -selective ligand, \pm -N-[trans-4-phenyl-2-butenyl]-3,4,5-trimethoxy-4'-
 hydroxyphenyl **piperidine**. The degree of selectivity obsd. in
 the radioligand binding expts. was not obsd. in the functional assay.
 A. binding to its ability to inhibit agonist stimulated binding of
 [3H]STB, gamma-8 at all three opioid receptors, 1 behaves as a
 μ -opioid receptor pure antagonist with negligible affinity for
 the δ -receptor.

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| PAIENT NO. | PLAN | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| 1E 1947-113 | A | 1947-113 | 1E 1947-1947-113 | 1947-113 |
| A 1947-113 | AA | 1947-113 | CA 1947-1947-113 | 1947-113 |
| W 1947-113 | A | 1947-113 | WC 1947-1947-113 | 1947-113 |
| W: AG, BG, FG, GA, HG, IG, JG, KG, LG, MG, NG, OG, PG, QG, RG, SG, TG, UG, VG, WG, XG, YG, ZG, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ | | | | |
| AG 1947-113 | A | 1947-113 | AG 1947-1947-113 | 1947-113 |
| AI 1947-113 | A | 1947-113 | AI 1947-1947-113 | 1947-113 |
| AL 1947-113 | A | 1947-113 | AL 1947-1947-113 | 1947-113 |
| AM 1947-113 | A | 1947-113 | AM 1947-1947-113 | 1947-113 |
| AN 1947-113 | A | 1947-113 | AN 1947-1947-113 | 1947-113 |
| AO 1947-113 | A | 1947-113 | AO 1947-1947-113 | 1947-113 |
| AP 1947-113 | A | 1947-113 | AP 1947-1947-113 | 1947-113 |
| AQ 1947-113 | A | 1947-113 | AQ 1947-1947-113 | 1947-113 |
| AR 1947-113 | A | 1947-113 | AR 1947-1947-113 | 1947-113 |
| AS 1947-113 | A | 1947-113 | AS 1947-1947-113 | 1947-113 |
| AT 1947-113 | A | 1947-113 | AT 1947-1947-113 | 1947-113 |
| AU 1947-113 | A | 1947-113 | AU 1947-1947-113 | 1947-113 |
| AV 1947-113 | A | 1947-113 | AV 1947-1947-113 | 1947-113 |
| AW 1947-113 | A | 1947-113 | AW 1947-1947-113 | 1947-113 |
| AX 1947-113 | A | 1947-113 | AX 1947-1947-113 | 1947-113 |
| AY 1947-113 | A | 1947-113 | AY 1947-1947-113 | 1947-113 |
| AZ 1947-113 | A | 1947-113 | AZ 1947-1947-113 | 1947-113 |
| BA 1947-113 | A | 1947-113 | BA 1947-1947-113 | 1947-113 |
| BB 1947-113 | A | 1947-113 | BB 1947-1947-113 | 1947-113 |
| BC 1947-113 | A | 1947-113 | BC 1947-1947-113 | 1947-113 |
| BD 1947-113 | A | 1947-113 | BD 1947-1947-113 | 1947-113 |
| BE 1947-113 | A | 1947-113 | BE 1947-1947-113 | 1947-113 |
| BF 1947-113 | A | 1947-113 | BF 1947-1947-113 | 1947-113 |
| BG 1947-113 | A | 1947-113 | BG 1947-1947-113 | 1947-113 |
| BH 1947-113 | A | 1947-113 | BH 1947-1947-113 | 1947-113 |
| BI 1947-113 | A | 1947-113 | BI 1947-1947-113 | 1947-113 |
| BJ 1947-113 | A | 1947-113 | BJ 1947-1947-113 | 1947-113 |
| BK 1947-113 | A | 1947-113 | BK 1947-1947-113 | 1947-113 |
| BL 1947-113 | A | 1947-113 | BL 1947-1947-113 | 1947-11 |



44 A procedure for the solid-phase synthesis of cycloalkane derivs. 1: [P = solid phase support; L = CH₂ 1-10, CH₂ C(CH₃) 1-10; R1 = H, organ; radicals; R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl; R2R3 = cycloalkene; R4 = substituted alkyl, cycloalkyl, aryl; R = one or two vicinal organ radicals; n = 0 - 4; m = 0 - (n+2)] involving condensation of 1-(1-1-CH₂CH₂CCOR3 with R2CH2CR1:CHCHRMCHRM(CH₂)nCHO followed by cyclization of P-0-1-0-2CH₂ CCR3: CH nCHRMCHRMCH:CHCHLPR in the presence of a Lewis acid is described. Thus, 1,4-dicarb precursor 11 was prepd. from 1-0-1-0-1-CH₂CH₂CCMe via condensation with Me2C:CHCHMeCH2CH2CHO in CH2Cl2, intg. piperidinium acetate followed by cyclization in CH2Cl2, wntg. 1,4-dicarb and redn. with DIBAL in PhMe.

104 ANSWER 14 OF 20. HCAPLUS COPYRIGHT 2001 ACS
 AN 1401101401 HCAPLUS
 IN 1401101401
 II Preparation of non-nucleoside phosphorus ester oligomers and their
combinatorial libraries as selective target-binding
 compounds
 IN Dennis, Robert G.; Dick, Alan F.; Fiedor, Morris J.; Puthi, Rama
 LA Pharmagenics, Inc., USA
 I INT. J. Appl. 106 pp.
 I1010101
 I1010101
 LA Indian
 PA INT. I

| INVENT. NO. | INVENT. DATE | APPLICATION NO. | DATE |
|-------------|--------------|-----------------|----------|
| 1401101401 | 10/10/01 | 1401101401 | 10/10/01 |

[illegible]

A1 refers to a ligand is claimed having the monomeric units
 A1 and A2. A1 and A2 are the same or different in each monomeric unit,
 independently selected from 1, 3, lower alkyl, an substituted alkylamine,
 an substituted arylamine and aminoalkyl; R1 and R2 are the same or different,
 independently selected from H, lower alkyl, a labeling group, a protecting
 group, a phosphoramidate or a phospho-monoester; R1 can be the same or
 different in each monomeric unit, and in at least one of the
 non-nucleotide monomeric units, R1 is independently selected from a
 condensation product of i) a non-vicinal **diol** attached to an
 H-bond acceptor functionality; ii) an H-bond acceptor selected from an
 ether, a purine or pyrimidine substituted 1,1-**diol** or a
 substituted heterocycle; iii) a non-vicinal **diol** attached to
 a hydrophobic functionality or a vicinal **diol** attached to an
 aliphatic aliphatic hydrophobic functionality; iv) a **diol**
 attached to a ring substituted anionic functionality and v) a cationic
 moiety attached to a non-vicinal or aliphatic **diol**, any of which
 can further include a detectable label; n, inteq. 1). Preferred R1
 moieties include condensation products of heterocyclic **diols**,
 aliphatic **diols**, and polycyclic **diols**. The
 non-nucleotide monomers thereof, **combinatorial library**
 mixtures of the oligomers and the use of the oligomers as selective
 target-binding compds. are claimed. In an example, when a **library**
 of non-nucleotide phosphorus ester oligomers is screened against thrombin,
 a subpopulation (0.001-0.01%) of the original **library** binds to
 the target, with an apparent $K_d < 100-500$ nM.

THE ANSWER IS NO. THE REASON IS

[illegible]

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

combinatorial libraries

24. Kaldwin, John J.; Hengerson, Ian; Wakszynski, Frank S.

WILKINS COMPANY, INC., USA

FILED AT: ADDL. 20 RD.

Journal of Interpersonal Violence 26(10)br/>© The Author(s) 2011
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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard diet, while the experimental group received a diet supplemented with 10% of the total energy from fat. The subjects were then divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet, while the experimental subgroup received a diet supplemented with 10% of the total energy from fat. The subjects were then divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet, while the experimental subgroup received a diet supplemented with 10% of the total energy from fat.

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

[illegible][illegible]

AL, AR, FI, GR, HE, HU, IL, IS, IT, JE, K, LI, LP, MA, MI, MO, NR, OR, PA, PE, PI, PP, PR, PS, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, 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BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ

11-11-11

11-11-11

11-11-11

11-11-11

AB is quinoline derivs. I (PI = un substituted alkyl, alkenyl, etc.; R = H, un substituted alkyl, etc.; R2 = R3 = H, halo, etc.; X = H, etc.; Y = OH, etc.) are prepd. More specifically, this invention provides novel isquinolines as well as novel **libraries** comprised of many such compds. This document also describes an initial screen of isquinoline **libraries** in the delta-opioid receptor assay and the sigma receptor assay.

11-11-11 ANSWER 11-11-11 HCAPLUS COPYRIGHT 2001 ACS
 11-11-11 11-11-11 HCAPLUS
 11-11-11 11-11-11
 11-11-11 A solution-phase strategy for the synthesis of chemical **libraries** containing small organic molecules: a universal and dipeptide mimetic template
 11-11-11 Cheng, Jian; Tarpy, Christine M.; Comer, Daniel D.; Williams, John P.; Caporale, Lynn R.; Myers, Peter L.; Boger, Dale L.
 11-11-11 BMSiChem, Inc., San Diego, CA, 92121, USA
 11-11-11 Biorg. Med. Chem. 1998, 4(5), 727-737
 11-11-11 CODEN: BMECEP; ISSN: 0968-0896
 11-11-11 Journal
 11-11-11 English
 11-11-11

11-11-11

11-11-11 11-11-11

11-11-11

AB A general approach to the solution phase, parallel synthesis of novel **libraries**, which allows the prepn. of multi-millions quantities of each individual member, is exemplified with both a universal template I and dipeptide mimetic template II. In each step of the sequence, the

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10- ANSWER 14: F. L. HAPLUS, COPYRIGHT 2001 ACS
11- HAPLUS, F. L.
12- HAPLUS, F. L.
13- 1. Solid-phase polyamine linkers - their utility in synthesis and the
14- generation of protected libraries against trypanothine
15- resistance
16- March, Ian A.; Smith, Helen; Bradley, Mark
17- Dept. Chemistry, Southampton Univ., Highfield, Southampton, SO9 5NH, UK
18- Chem. Commun., Cambridge, 1998, 5, 841-842
19- ISSN: 0959-9435; ISSN: 1366-5948
20- 1. Digital
21- English
22- A variety of bi-protected polyamines were anchored to a solid support and
23- used in solid phase chem. and library generation as
24- trypanothine reductase inhibitors.

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004 ANSWER 14 OF 11 HCAPLUS COPYRIGHT 2001 ACS
 AN 1234567890 HCAPLUS
 IN 123456789
 11 Rapid optimization of organic reactions on solid phase using the multipin
 approach: synthesis of 4-aminoproline analogs by reductive amination
 AU Bray, Andrew M.; Chieffari, Debra S.; Valerio, Robert M.; Maerz, N. Joe
 12 Union Miniscope Pty. Ltd., Clayton, 3168, Australia
 13 Tetrahedron Lett. 1995 , 36 28 , 5061-4
 14 INDEX: TELEAY: ISSN: 0040-4039
 15 Journal
 16 English
 17 CASREACT 123456789
 18 The multipin method of multiple solid phase synthesis was used in
 19 conjunction with **high throughput** characterization
 20 methods i.e. spray mass spectrometry and HPLC to optimize reactions
 21 rapidly for solid phase synthesis. The approach is demonstrated in the
 22 synthesis of 4-aminoproline analogs by reductive amination under a wide
 23 range of conditions, using a diverse set of amines.

169 ANSWER TO IF IN HCAPLUS COPYRIGHT 2001 ACS
170 HCAPLUS HCAPLUS
171 HCAPLUS
172 Polymeric activated esters of 3,4-dihydroxy-2,5-
173 diphenylthiophene 1,1-di-oxide
174 Steglich, Wolfgang; Holltner, Oswald; Seewald, Alfred
175 BASF AG., Fed. Rep. Ger.
176 Int., Appl. Division of Int. Appl. No. 279,418.
177 CLASS: C08G44
178 Patent
179 English

| PATENT NO. | | FILED | DATE | APPLICATION NO. | | DATE |
|------------|-----------------|-------|----------|-----------------|----------|------|
| FI | CA 1113885 | AD | 19811106 | CA 1981-38915* | 19810730 | |
| | DE 2718539 | AI | 19871111 | DE 1986-262853* | 19870101 | |
| | DE 2718539 | II | 19871114 | | | |
| | CA 1113907 | AI | 19811014 | CA 1987-19741* | 19870729 | |
| FRAN | DE 2707-271853* | | 19860605 | | | |
| | DE 2707-271853* | | 19870605 | | | |

[illegible]